ORAL PRESENTATION

A1: Water treatment and monitoring

A1-1 10:30 **Household wastewater reuse by effective natural filter media**

R. Arthur James, Bharathidasan University

A1-2 10:55 **Real-time and on-site monitoring of bacterial cells in aquatic environments by portable microfluidic system**

N. Yamaguchi, Osaka University, Japan

A1-3 11:20 **Water Disinfection for Remote Areas of Developing Regions – An Innovative and Sustainable Approach using Solar Technology and Anodic Oxidation**

Philipp Otter, AUTARCON GmbH, Germany

A1-4 11:45 **A direct rRNA quantification method using molecular weight cut-off membrane**

Y. Takemura, Tohoku University, Japan

B1: Groundwater

B1-1 10:30 **Assessment of fluoride in groundwater, soil and vegetation and mapping of endemic areas of Gaya district, Bihar, India.**

Shahla Yasmin, Patna University

B1-2 10:55 **Groundwater stressed North West India and adaptation strategies under recent global-warming hiatus**

Partha Sarathi Datta, Independent Consultant on Water and Environment

B1-3 11:20 **Enhanced dissolution of hydrophobic compounds in Biosurfactant solution**

Rajender K, Indian Institute of Technology Madras

B1-4 11:45 **Signature of Stable Isotopes and Dissolved Organic Carbon in groundwater from layered aquifers of Pondicherry region, south India**

S. Chidambaram, Annamalai University

A2: Physicochemical Treatment (Kurita session)

A2-1
13:15
RSM and ANN-GA experimental design optimization for electrocoagulation removal of chromium
Manpreet S. Bhatti, Guru Nanak Dev University

A2-2
13:40
Sunlight–assisted photo-Fenton process for removal of insecticide from agricultural wastewater
Amrita Datta, University of Calcutta

A2-3
14:05
Catalytic reduction of water contaminant '4-nitrophenol' over manganese oxide supported Ni nanoparticles
Pangkita Deka, Tezpur University

A2-4
14:30
Ultrasonically triggered aerobic digestion of waste activated sludge: A novel approach for sludge minimization
Vinay Kumar Tyagi, National Taiwan University, Chinese Taipei

B2: Natural water

B2-1
13:15
Melt water quality and quantity assessment in the Himalayan Galcier
AL.Ramanathan, Jawaharlal Nehru University

B2-2
13:40
Shrinking cryosphere and depleting streamflows under changing climate in Kashmir Himalayas
Shakil A Romshoo, University of Kashmir

B2-3
14:05
Measurement of Isotopic Composition of Atmospheric Water Vapour by National Institute of Hydrology, Roorkee in India
M.S. Rao, National Institute of Hydrology

B2-4
14:30
Hydrological regimes and zooplankton ecology at Tempe Floodplains, Indonesia: preliminary study before the operation of the downstream barrage
Reliana Lumban Toruan, Research Centre for Limnology, Indonesia

A3: Wastewater treatment and monitoring (Kurita session)

A3-1 16:00 **Adsorptive Phosphate Removal from Wastewater Using Red Soil as a Natural Adsorbent: Kinetics and Isotherm Studies**
Rajesh Roshan Dash, Indian Institute of Technology Bhubaneswar

A3-2 16:25 **Eukaryotic biodiversity in wastewater treatment processes as revealed by 18S rRNA gene clone libraries**
Kengo Kubota, Tohoku University, Japan

A3-3 16:50 **Unique sensors for the operation of waste water treatment**
Makoto Nomura, Kurita Water Industries, Japan

A3-4 17:15 **Monitoring and controlling the value of F/M ratio at sewage treatment plant by using expert system International Islamic University, Malaysia**
A. K. Nassereldeen, International Islamic University, Malaysia

B3: Sociological approach

B3-1 16:00 **Farmer's perception of drought, its impacts and adaptation practices: Perspectives from Maharashtra State, India**
Parmeshwar D. Udmale, University of Yamanashi, Japan

B3-2 16:25 **Sewerage and Sanitation Planning in Urban India- a proposal for better life and environment**
Takashi Sakakibara, JICA

B3-3 16:50 **Application of POSAF methodology in India for implementation of decentralized wastewater technologies**
Markus Starkl, University of Natural Resources and Life Sciences, Austria

A4: Biological treatment

A4-1 9:00 **Effect of Wastewater Characteristics on Performance of a Lab-scale RBC Treating Biomass Gasifier Wastewater**

Suparna Mukherji, Indian Institute of Technology Bombay

A4-2 9:25 **Systematic investigation of biomass, fatty acid productivity and CO2 sequestration from generator gases by fresh water microalgae in photobioreactors for biodiesel application**

B.Bruno, S.Sandhya, CSIR Complex

A4-3 9:50 **Decolorization studies of a novel textile dye degrading bacterium**

S. Menaka Devi, Dolphin Post Graduate College of Life Sciences

A4-4 10:15 **Effect of HRT on performance of integrated anaerobic/aerobic MSBR system for treating azo dye-containing wastewater**

Alavi Moghaddam, Mohammad Reza, Amirkabir University of Technology, Iran

B4: Water Quality

B4-1 9:00 **Occurrence and Origin of PAHs in Water from Urban Stretch of River Bharalu, Guwahati, India**

Raza R Hoque, Tezpur University

B4-2 9:25 **Occurrence and Origin of PAHs in Water from Urban Stretch of River Bharalu, Guwahati, India**

Arya V, Indian Institute of Technology Madras

B4-3 9:50 **Multi drug resistance in waterborne Enterobacteriaceae pathogenic isolates**

Shailendra Kumar, Dr. Ram Manohar Lohia Avadh University

B4-4 10:15 **Evaluation of groundwater quality in 14 districts in Sri Lanka - a collaboration research between Sri Lanka and Japan -**

S K Weragoda, National Water Supply and Drainage Board, Sri Lanka

A5: Water Quality and Risk

A5-1 11:00 **Multi-pathway risk assessment of trihalomethanes exposure in drinking water supplies**

S. K. Gupta, Indian School of Mines

A5-2 11:25 **A Comparative Study of Influence of Mass Bathing on Water Quality of Brahma and Sannihit Sarovars, Kurukshetra**

Preetika Bhateja, ITM University

A5-3 11:50 **Prevalence of viruses and its potential as viral indicator for drinking water safety: case study in Hanoi, Vietnam**

Jatuwat Sangsanont, the University of Tokyo, Japan

B5: Arsenic Contamination

B5-1 11:00 **Groundwater arsenic, arsenic in Quaternary sediments and suspended river sediments in the Middle Ganga Plain, India**

Babar Ali Shahv, Jadavpur University

B5-2 11:25 **Fate of more than 480 million inhabitants living in arsenic and fluoride endemic districts of India: Health, socio-economic effects & approaches for mitigation.**

Dipankar Chakraborti, Jadavpur University

B5-3 11:50 **Tracing the significance of river for Arsenic enrichment and mobilization**

M. Kumar, Tezpur University

POSTER PRESENTATION

Groundwater

1 **ARSENIC POLLUTION IN GROUNDWATER OF TARAI REGION AND ITS MITIGATION THROUGH ETHNO BOTANICAL APPROACHES**
Dr. Dhananjay Mani Tripathi, DDU Gorakhpur University

2 **Co-contamination of Arsenic and Fluoride in the groundwater of Diphu, Karbi-Anglong, North-eastern India**
Aparna Das, Tezpur University

3 **Hydrogeochemistry and heavy metal contamination in Bhatinda and Ropar Districts of Punjab**
Anand Kumar, TERI University

4 **IMPACT OF ONSITE SANITATION ON GROUNDWATER QUALITY - A CASE STUDY**
Suman Mor, Panjab University

5 **IS HAND PUMP IS POURING PETROLEUM GAS IN SOUTH GANGA BASIN, SAUGOR DISTT. M.P. INDIA.**
Arun K Shandlya, Dr.HSG University

6 **Spatial Variation of Groundwater Quality of Gogi region, Yadgir, Karnataka.**
Arunsabarish.B, Anna University

7 **Study of variation for arsenic contaminated groundwater using Multivariate Statistical Technique in the rural area of West Bengal**
Somnath Pal, Jadavpur University

8 **To study the impact of leachate generation on groundwater quality at Municipal Solid Waste (MSW) Landfill areas of Delhi**
Manju Rawat Ranjan, Amity Institute of Environmental Sciences

9 **A study on the nature of U and its speciation in groundwater of a hard rock aquifer in South India**
S.Chidambaram, Annamalai University

Heavy metals/Organic pollutants

10 **A Fast & Easy Technique for Isolation and Selection of Phenol Degrading Bacteria From Waste Water and Contaminated Samples**
Mohammed A Fayidh, Anna University

11 **Application of Pure Copper Metal as a Potential Algicide**
Mr. Avdesh Bhardawaj, ITM University

12 **Effect of Vermiconversion on Heavy Metal Removal in Activated Sludge with**

Sustainability

Wastewater treatment

Water and aquatic resource